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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,469	06/14/2007	Chul-Sik Yoon	1403-22 PCT US	6699
	7590 12/15/201 L LAW FIRM, LLP	EXAMINER		
290 Broadhollow Road			DOAN, PHUOC HUU	
Suite 210E Melville, NY 11747			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			12/15/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Cummons	10/588,469	YOON ET AL.				
Office Action Summary	Examiner	Art Unit				
	PHUOC DOAN	2617				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 06 Oc	ctober 2010.					
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<i>i</i>	· -					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
· ·						
Disposition of Claims						
4) \boxtimes Claim(s) <u>1-12 and 14-21</u> is/are pending in the a	ipplication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,4-8,10-12,14,15 and 18-21</u> is/are rej	ected.					
7) \boxtimes Claim(s) <u>2-3.9.16-17</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	,	• • • • • • • • • • • • • • • • • • • •				
Priority under 35 U.S.C. § 119						
	oviarity under OF LLC C (\$ 110/a)	(d) ax (f)				
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(a) or (i).				
a) All b) Some * c) None of:	the contract of the contract of					
1. Certified copies of the priority documents		• •				
2. Certified copies of the priority documents	, ,					
3. Copies of the certified copies of the prior		d in this National Stage				
application from the International Bureau	, , , ,					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
S. Patent and Trademark Office	~/ L. ~ u.m.t.					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-12, 14-21 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4-8, 10-12, 14-15, 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fong (US Pub No. 2004/0013102) in view of Ahn (US Pub No. 2007/0024559).

As to claim 1, Fong discloses a method for requesting channel quality information (CQI) in a wireless portable Internet system (par [0023-0024, 0053] "wireless communication system associated with the receiving signal that provided by channel quality information CQI or signal quality"), comprising: a) a base station determining timing of a channel quality information request (par [0023, 0053]); b) requesting an automatic repeat

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request acknowledgement (ARQ-ACK) message of downlink data upon requesting the CQI from a subscriber station (par [0042, 0049, 0053] "where ARQ acknowledgement ACK message downlink from mobile stations 14") a; c) allocating a radio resource for the ARQ-ACK message and the channel quality report to the subscriber station ([0042, 0049, 0053]); d) receiving information on the ARQ-ACK message and the channel quality report ([0042, 0049, 0053]); and e) determining a modulation and coding level of downlink data by extracting the channel quality report information from the ARQ-ACK (par [0040, 0043] "applied modulation and coding that extracting the channel quality"). However, xxx unclearly discloses requesting an automatic repeat request acknowledgement message of downlink data upon requesting the control quality information from a subscriber station. yyy clearly discloses requesting an automatic repeat request acknowledgement message of downlink data upon requesting the control quality information from a subscriber station (par 0027, 0043, 0048-0049, 0068, 0076] "where of transmitting at least one acknowledgement signal using automatic repeat request ARQ; ARQ-ACK downlink data upon requesting the control quality information from a mobile station based up on channel control or recognition of the data packet acknowledgment"). Therefore, it would have been obvious to one of ordinary skill in the art of

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providing as teaching above to yyy, in order to save the power that required in the transmission of the ACK/NACK signals can be reduced.

As to claim 4, 18, Fong further discloses the method for reporting the channel quality information of claim 1, wherein the CQI is a mean value or standard deviation of a carrier to interference noise ratio (CINR) of the downlink (par [0053] "the received signal quality or control quality information CQI").

As to claim 5, 20, Fong further discloses the method for reporting the channel quality information of claim 1, wherein information on the radio resource allocated for reporting the CQI is transmitted while being included in the UL-MAP of a downlink frame (par [0026, 0053]).

As to claim 6, 21, Fong further discloses the method for reporting the channel quality information of claim 1, further comprising: controlling the period and frequency of the CQI based on the received CQI (par [0053] "the received signal quality or control quality information CQI").

As to claim 7, 19, Fong further discloses the method for reporting the channel quality information of claim 4, further comprising: allocating a radio resource for reporting the CQI at the front time slot of the uplink resource for the subscriber station having the larger standard deviation of the CINR

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(par [0053] "the received signal quality or control quality information CQI").

As to claim 8, claim is rejected for the same reasons as set forth in claim 1.

As to claim 10, Fong further discloses the method for reporting the channel quality information of claim 8, further comprising: a-2) determining whether the REP_REQ MAC message is transmitted from the base station (par [0024-0026]); b-2) measuring the CQI and updating the same into the latest value when the REP_REQ MAC message is transmitted (par [0053]); c-2) acknowledging a radio resource of a dedicated channel allocated for the CQI report (par [0027]); and d-2) transmitting the CQI through the dedicated channel to the base station (par [0027, 0053]).

As to claim 11, Fong further discloses the method for reporting the channel quality information of claim 8, wherein the CQI is a mean value or standard deviation of a carrier to interference noise ratio (CINR) of the downlink (par [0053] "the received signal quality or control quality information CQI").

As to claim 12, Fong further discloses the method for reporting the channel quality information of claim 8, wherein the radio resource allocation

information for reporting the CQI transmitted to the base station is included in the UP-MAP of an uplink frame (par [0026, 0053]).

As to claim 13, claim is rejected for the same reasons as set forth in claim 1.

As to claim 14, claim is rejected for the same reasons as set forth in claim 1.

Allowable Subject Matter

3. Claims 2-3, 9, 16-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUOC DOAN whose telephone number is (571)272-7920. The examiner can normally be reached on 10:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LESTER KINCAID can be reached on 571-272-

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7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PHUOC DOAN/ Examiner, Art Unit 2617